

ABSTRACT

Nicotinic acid, a water-soluble B-complex vitamin and antihyperlipidemic agent, is 3-pyridinecarboxylic acid. The nicotinic acid and their derivative have been utilized for diverse pharmacological activities. The fourteen nicotinic acid derivatives ND1, ND2, ND3, ND4, ND5, ND6, ND7, ND8, ND9, ND10, ND11, ND12, ND13 and ND14 have been synthesized by using ligands (rhodanine, 1,3-dinitrobenzoic acid, salicylic acid, succinic acid) and transition metal salts. Most of the nicotinic acid derivatives are soluble in Chloroform, ethanol, DMSO and DMF. IR analysis showed that different functional groups are located of the newly formed derivatives. The biological activity also confirmed that low concentration of nicotinic acid has less zone of inhibition as compared to high concentration of nicotinic acid derivatives, which have high zone of inhibition.